

REED ET AL.
"Resource Negotiation in Wireless"
Communications Networks And Methods"
Atty. Docket No. CS23600RL

Appl. No. 10/662,256
Confirm. No. 9036
Examiner R. Peaches
Art Unit 2686

1. (Currently Amended) A method in a wireless communications network, the method comprising:

transmitting a radio resource assignment to a wireless communications device;

transmitting radio resource assignment time-out information to the wireless communications device,

the radio resource assignment time-out information having at least two states,

a first state specifying a first duration during which the radio resource assignment to the wireless communications device remains valid after the wireless communications device discontinues communication on the radio resource assigned,

a second state specifying a second duration during which the radio resource assignment to the wireless communications device remains valid after the wireless communications device discontinues communication on the radio resource assigned.

2. (Currently Amended) The method of Claim 1, transmitting the radio resource assignment time-out information includes transmitting at least one bit specifying one of [~~a plurality of~~] the first or second durations [~~radio resource assignment time-out intervals to the wireless communications device~~].

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3. (Original) The method of Claim 1, transmitting the radio resource assignment and the radio resource assignment time-out information in a single message.

Claims 4-5 (Canceled).

6. (Original) The method of Claim 1, indicating the time-out duration of the radio resource assignment to the wireless communications device in terms of frames.

7. (Currently Amended) The method of Claim 1, selecting at least one of the first and second radio resource assignment time-out ~~[duration]~~ durations based on at least one of a wireless communications network load or ~~and~~ a wireless communications network load variability.

8. (Currently Amended) The method of Claim 1, selecting at least one of the first and second radio resource assignment ~~[duration]~~ durations based on at least one of reserve power of the wireless communications device or ~~and~~ quality of service of the wireless communications device.

Claim 9 (Canceled).

10. (Currently Amended) A method in a wireless communications device, the method comprising:

receiving a radio resource assignment;
receiving radio resource assignment time-out information,

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the radio resource assignment time-out information indicating
having first and second possible states,

the first state indicating a first duration during which the radio
resource assignment is valid after the wireless communications device
discontinues communicating on the assigned radio resource,

the second state indicating a second duration during which the
radio resource assignment is valid after the wireless communications device
discontinues communicating on the assigned radio resource.

11. (Original) The method of Claim 10,
receiving the radio resource assignment in response to a request,
communicating on the radio resource assigned,
discontinuing communication in the radio resource assigned,
resuming communications on the radio resource assigned within
the radio resource assignment time-out duration without requesting a new
radio resource assignment.

12. (Original) The method of Claim 11, resuming communications
on the radio resource assigned at a data rate not greater than a data rate
occurring when the communication was discontinued.

13. (Original) The method of Claim 10,
receiving the radio resource assignment in response to a request,
communicating on the radio resource assigned,
discontinuing communications on the radio resource assigned,

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requesting a new radio resource assignment if data communications are not resumed within the radio resource assignment time-out duration.

14. (Original) The method of Claim 10, beginning the duration when the wireless communications device discontinues communication on the radio resource assigned.

15. (Original) The method of Claim 10,
requesting the radio resource assignment,
receiving the radio resource assignment in response to the request,
the radio resource assignment including a data channel assignment,
transmitting on the channel assigned,
discontinuing transmission on the channel assigned,
resuming transmission on the channel assigned within the radio resource assignment time-out duration without requesting a new radio resource assignment,
requesting a new radio resource assignment if transmission is not resumed on the channel assigned within the radio resource assignment time-out duration.

16. (Original) The method of Claim 10, selecting transmission times based on the radio resource assignment time-out information.

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17. (Currently Amended) The method Claim 10, avoiding deep fade by selecting transmission times based on the radio resource assignment time-out information.

18. (Currently Amended) A message for transmission from a wireless communications network to a wireless communications device, the message comprising:

~~[at least one bit,~~

~~the at least one bit]~~ a radio resource time-out interval bit having at least a first state and a second state,

in the first state, the radio resource time-out interval bit specifying a first duration during which a radio resource assignment is valid after a wireless communications device to which the radio resource is assigned discontinues communicating on the assigned radio resource,

in the second state, the radio resource time-out interval bit specifying a second duration during which a radio resource assignment is valid after a wireless communications device to which the radio resource is assigned discontinues communicating on the assigned radio resource.

Claim 19 (Canceled).

20. (Original) The message of Claim 19, the message is a radio resource assignment message including a channel assignment.

21. (Original) The message of Claim 20, the radio resource assignment message includes a data rate assignment.

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22. (New) The method of Claim 1,
indicating with the first state that the first duration expires upon
transmission of a specified number of frames,
indicating with the second state that the second duration expires
after an interval specified in another message.

23. (New) The method of Claim 10,
indicating with the first state that the first duration expires upon
transmission of a specified number of frames by the wireless communications
device,
indicating with the second state that the second duration expires
after an interval specified in another message received by the wireless
communications device.

24. (New) The message of Claim 18,
in the first state, the first duration is a single frame,
in the second state, the second duration is a number of frames
specified in another message.